

**COORDINATE MEASURING APPARATUS FOR CONTACTING A
WORKPIECE, TOUCH PROBE FOR A COORDINATE MEASURING
APPARATUS AND METHOD OF OPERATING A COORDINATE
MEASURING APPARATUS**

Abstract

[0078] A touch probe 9 for a coordinate measuring apparatus is proposed which includes a touch probe chassis 29 adapted to be attached to the coordinate measuring apparatus, a support for the sensing stylus 39 which is mounted on the touch probe chassis 29 so as to be deflectable from a rest position and on which a sensing stylus 47 is mountable for contacting a workpiece 17, a deflection measuring system 55, 57 for detecting a deflection of the support for the sensing stylus 39 with respect to the touch probe chassis 29 and an inspection optics 61 for inspecting a tip 49 of the sensing stylus 47. The touch probe 1 is characterized in that at least one of the components support for the sensing stylus 39 and touch probe chassis 29 comprises a transverse support 39 which extends transversely to a direction of extension of the sensing stylus 47 and which is transparent to light in at least a portion thereof and which is disposed in a beam path 69 of the inspection optics 61.